

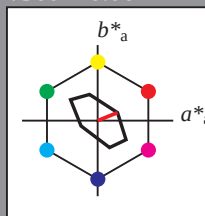
Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 22/360 = 0.061$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue O
LCH*Ma: 76 28 22
olv*Ma: 1.0 0.0 0.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 22/360 = 0.061 (left)

BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

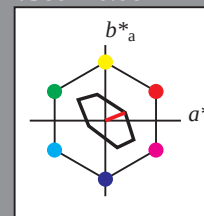
Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 22/360 = 0.061$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue O
LCH*Ma: 76 28 22
olv*Ma: 1.0 0.0 0.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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L _{Ma}	89.32	-35.8	27.64	45.24	142
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W _{Ma}	95.41	0.0	0.0	0.0	0
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B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

5 step scales for constant CIELAB hue 22/360 = 0.061 (right)

input: $cmY0^* \text{ setcmYkcolor}$

output: $cmY0^* / 000n^* \text{ setcmYkcolor}$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 107/360 = 0.298$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue Y
LCH*Ma: 94 36 107
olv*Ma: 1.0 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 16$

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
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L _{Ma}	89.32	-35.8	27.64	45.24	142
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V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 107/360 = 0.298$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue Y
LCH*Ma: 94 36 107
olv*Ma: 1.0 1.0 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 16$

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

OE490-7, 5 step scales for constant CIELAB hue 107/360 = 0.298 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 107/360 = 0.298 (right)

input: `cmY0* setcmykcolor`

output: `cmY0* / 000n* setcmykcolor`

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 142/360 = 0.395$

$lab \cdot tch$ and $lab \cdot nch$

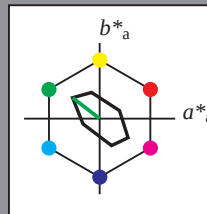
D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

triangle lightness

1,00



%Gamut

$u^*_{rel} = 16$

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

relative Inform. Technology (IT)	olvi3*	1.0	1.0	1.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	95.41	0.0	0.0	
	LAB*Lab	95.41	0.0	0.0	
	LAB*Lab	95.41	0.0	0.0	
relative CIELAB lab*	lab*lab	1.0	0.0	0.0	
	lab*tch	1.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	1.0	0.0	0.0	
	lab*tce	1.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.75	0.75	0.75	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	88.98	0.0	0.0	
	LAB*Lab	88.98	0.0	0.0	
	LAB*Lab	88.98	0.0	0.0	
relative CIELAB lab*	lab*lab	0.75	0.0	0.0	
	lab*tch	0.75	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.75	0.0	0.0	
	lab*tce	0.75	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.5	0.5	0.5	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	82.56	0.0	0.0	
	LAB*Lab	82.56	0.0	0.0	
	LAB*Lab	82.56	0.0	0.0	
relative CIELAB lab*	lab*lab	0.5	0.0	0.0	
	lab*tch	0.5	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.5	0.0	0.0	
	lab*tce	0.5	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.25	0.25	0.25	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	76.13	0.0	0.0	
	LAB*Lab	76.13	0.0	0.0	
	LAB*Lab	76.13	0.0	0.0	
relative CIELAB lab*	lab*lab	0.25	0.0	0.0	
	lab*tch	0.25	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.25	0.0	0.0	
	lab*tce	0.25	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	69.7	0.0	0.0	
	LAB*Lab	69.7	0.0	0.0	
	LAB*Lab	69.7	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	50.0	0.0	0.0	
	LAB*Lab	50.0	0.0	0.0	
	LAB*Lab	50.0	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	30.57	0.0	0.0	
	LAB*Lab	30.57	0.0	0.0	
	LAB*Lab	30.57	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	1.41	0.0	0.0	
	LAB*Lab	1.41	0.0	0.0	
	LAB*Lab	1.41	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)	olvi3*	0.0	0.0	0.0	(1.0)
	cmyn3*	0.25	0.0	0.0	(0.0)
	olvi4*	1.0	1.0	1.0	1.0
	cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB	LAB*LAB	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
	LAB*Lab	0.0	0.0	0.0	
relative CIELAB lab*	lab*lab	0.0	0.0	0.0	
	lab*tch	0.0	0.0	0.0	
	lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	lab*trj	0.0	0.0	0.0	
	lab*tce	0.0	0.0	0.0	
	lab*nce	0.0	0.0	0.0	

0 & 1L570	
0 hues	
	0

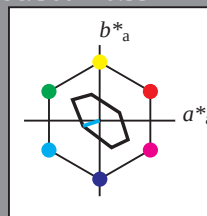
Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 198/360 = 0.55$

lab^*tch and lab^*nch

D65: hue C
LCH*Ma: 91 23 198
olv*Ma: 0.0 1.0 1.0

triangle lightness



TLS70; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 198/360 = 0.55 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

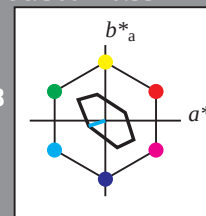
Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 198/360 = 0.55$

lab^*tch and lab^*nch

D65: hue C
LCH*Ma: 91 23 198
olv*Ma: 0.0 1.0 1.0

triangle lightness



TLS70; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

5 step scales for constant CIELAB hue 198/360 = 0.55 (right)

input: $cmY0^* \text{ setcmYkcolor}$

output: $cmY0^* / 000n^* \text{ setcmYkcolor}$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 294/360 = 0.816$

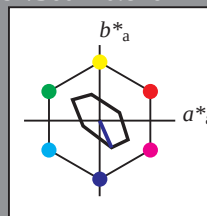
$lab \cdot tch$ and $lab \cdot nch$

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

0,75

0,25

0,00

0,25

0,50

0,75

1,00

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 294/360 = 0.816$

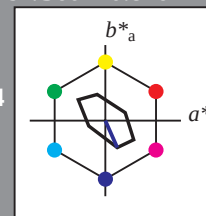
$lab \cdot tch$ and $lab \cdot nch$

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

0,75

0,25

0,00

0,25

0,50

0,75

1,00

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

blackness n^*

blackness n^*

OE490-7, 5 step scales for constant CIELAB hue 294/360 = 0.816 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 294/360 = 0.816 (right)

input: $cmY0^* \text{ setcmYkcolor}$

output: $cmY0^* / 000n^* \text{ setcmYkcolor}$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 326/360 = 0.906$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue M
LCH*Ma: 79 45 326
olv*Ma: 1.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 16$

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 326/360 = 0.906$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue M
LCH*Ma: 79 45 326
olv*Ma: 1.0 0.0 1.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 16$

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

0,75

0,25

0,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

0,25

0,50

0,75

1,00

OE490-7, 5 step scales for constant CIELAB hue 326/360 = 0.906 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 326/360 = 0.906 (right)

input: $cmY0^* \text{ set } cmykcolor$

output: $cmY0^* / 000n^* \text{ set } cmykcolor$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 25/360 = 0.071$

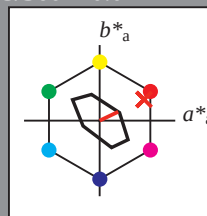
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 0.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

0,75

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

$n^* = 0,50$

chromaticness c^*

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 25/360 = 0.071$

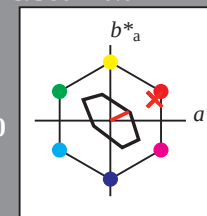
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 0.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

input: $cmY0^* \text{ setcmYcolor}$

output: $cmY0^* / 000n^* \text{ setcmYcolor}$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 92/360 = 0.256$

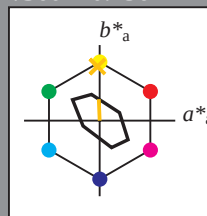
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 92/360 = 0.256$

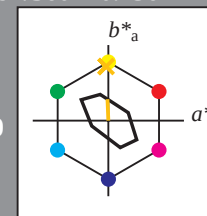
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

input: $cmY0^* \text{ setcmYcolor}$

output: $cmY0^* / 000n^* \text{ setcmYcolor}$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 162/360 = 0.451$

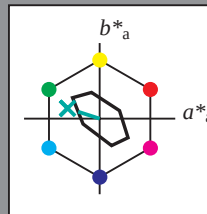
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

0,75

0,25

0,00

0,00

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 162/360 = 0.451$

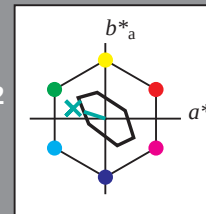
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

0,75

0,25

0,00

chromaticness c^*

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

input: $cmv0^* \cdot setcmvcolor$

output: $cmv0^* / 000n^* \cdot setcmvcolor$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 272/360 = 0.755$

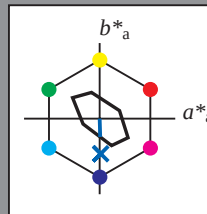
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 80 24 272

olv*Ma: 0.0 0.4 1.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

0,75

1,00

chromaticness c^*

blackness n^*

OE490-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 272/360 = 0.755$

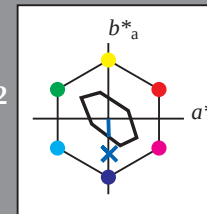
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 80 24 272

olv*Ma: 0.0 0.4 1.0

triangle lightness



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

1,00

0,75

0,25

0,00

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

0,00

0,25

0,50

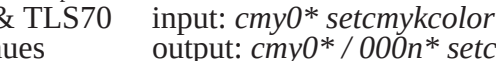
0,75

1,00

chromaticness c^*

blackness n^*

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)



input: $cmY0^* \text{ setcmYkcolor}$

output: $cmY0^* / 000n^* \text{ setcmYkcolor}$